

SEARCH NOTES

=> s UCP and plant and uncoupling
L1 139 UCP AND PLANT AND UNCOUPLING

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=> s l2 and inhibitor
L3 4 L2 AND INHIBITOR

=> d l3 1-4 ibi ab
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L3 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:512052 BIOSIS
DOCUMENT NUMBER: PREV200300515111
TITLE: A signalling role for 4-hydroxy-2-nonenal in regulation of
mitochondrial **uncoupling**.
AUTHOR(S): Echtay, Karim S.; Esteves, Telma C.; Pakay, Julian L.;
Jekabsons, Mika B.; Lambert, Adrian J.; Portero-Otin,
Manuel; Pamplona, Reinald; Vidal-Puig, Antonio J.; Wang,
Steven; Roebuck, Stephen J.; Brand, Martin D. [Reprint
Author]
CORPORATE SOURCE: MRC Dunn Human Nutrition Unit, Hills Road, Cambridge, CB2
2XY, UK
martin.brand@mrc-dunn.cam.ac.uk
SOURCE: EMBO (European Molecular Biology Organization) Journal,
(August 15 2003) Vol. 22, No. 16, pp. 4103-4110. print.
ISSN: 0261-4189 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 5 Nov 2003
Last Updated on STN: 5 Nov 2003

L3 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1998:323638 BIOSIS
DOCUMENT NUMBER: PREV199800323638
TITLE: Development of infrared imaging to measure thermogenesis in
cell culture: Thermogenic effects of **uncoupling**
protein-2, troglitazone, and beta-adrenoceptor agonists.
AUTHOR(S): Paulik, Mark A. [Reprint author]; Buckholz, Richard G.;
Lancaster, Mary E.; Dallas, Walter S.; Hull-Ryde, Emily A.;
Weiel, James E.; Lenhard, James M. [Reprint author]
CORPORATE SOURCE: Dep. Metabolic Diseases, GlaxoWellcome Inc., 5 Moore Drive,
Research Triangle Park, NC 27709, USA
SOURCE: Pharmaceutical Research (New York), (June, 1998) Vol. 15,
No. 6, pp. 944-949. print.
CODEN: PHREEB. ISSN: 0724-8741.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 22 Jul 1998
Last Updated on STN: 22 Jul 1998

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:408796 CAPLUS
DOCUMENT NUMBER: 137:1546

US 2003150022 A1 20030807 US 2001-823886 20010330
PRIORITY APPLN. INFO.: US 2000-193533P P 20000331

=> s l2 and infection
L4 1 L2 AND INFECTION

=> d l4 1 ibib ab

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:748022 CAPLUS
DOCUMENT NUMBER: 135:285935
TITLE: Transgenic **plant** expression
uncoupling protein (UCP) for
metabolism regulation
INVENTOR(S): Berry-lowe, Sandra Lee; Newell, Martha Karen
PATENT ASSIGNEE(S): University Technology Corporation, USA
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001075131	A2	20011011	WO 2001-US10236	20010330
WO 2001075131	A3	20020314		
WO 2001075131	C2	20021227		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

US 2003150022 A1 20030807 US 2001-823886 20010330
PRIORITY APPLN. INFO.: US 2000-193533P P 20000331

AB The invention relates to methods and products for manipulating **plant** metab. and resistance to **infection**. Several foreign **uncoupling** protein (UCP) genes were expressed in cell wall of Chlamydomonas reinhardtii in wild type. Increased levels of **UCP** have been detected in wild type, light sensitive, a photosynthetic mutant alga grown in darkness, and norflurazon treated algae. Furthermore, increased levels in the wild type stain made light-sensitive by treatment with herbicide norflurazon have been obsd. The invention prove Des evidence the presence or absence of **UCPs** in membranes regulates the fuel metab. in **plants**.

=> s l2 and transform?
L5 5 L2 AND TRANSFORM?

=> d l5 1-5 ti

L5 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Development of infrared imaging to measure thermogenesis in cell culture: Thermogenic effects of **uncoupling** protein-2, troglitazone, and beta-adrenoceptor agonists.

L5 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Mutagenesis of the **uncoupling** protein of brown adipose tissue.

Neutralization of E190 largely abolishes pH control of nucleotide binding.

L5 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI FUNCTIONAL EXPRESSION OF THE RAT BROWN ADIPOSE TISSUE **UNCOUPLING**
PROTEIN IN SACCHAROMYCES-CEREVISIAE.

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
TI Tissue-specific inhibition of oxidative phosphocyclation to cause
male-sterility in **plants**

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
TI Chemical regulation of male sterility in crop **plants**

=> d 15 ibib ab

L5 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1998:323638 BIOSIS
DOCUMENT NUMBER: PREV199800323638
TITLE: Development of infrared imaging to measure thermogenesis in
cell culture: Thermogenic effects of **uncoupling**
protein-2, troglitazone, and beta-adrenoceptor agonists.
AUTHOR(S): Paulik, Mark A. [Reprint author]; Buckholz, Richard G.;
Lancaster, Mary E.; Dallas, Walter S.; Hull-Ryde, Emily A.;
Weiel, James E.; Lenhard, James M. [Reprint author]
CORPORATE SOURCE: Dep. Metabolic Diseases, GlaxoWellcome Inc., 5 Moore Drive,
Research Triangle Park, NC 27709, USA
SOURCE: Pharmaceutical Research (New York), (June, 1998) Vol. 15,
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CODEN: PHREEB. ISSN: 0724-8741.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 22 Jul 1998
Last Updated on STN: 22 Jul 1998

AB Purpose. Although the effects of thermogenic agents in cell culture can
be measured by direct microcalorimetry, only a few samples can be analyzed
over several hours. In this report, we describe a robust non-invasive
technique to measure real-time thermogenesis of cells cultured in
microtiter plates using infrared thermography Methods. Yeast were
transformed with **uncoupling** protein-2 (UCP2) or exposed
to carbonyl cyanide p-(trifluoromethoxy)phenylhydrazone (FCCP) or
rotenone. Adipocytes were exposed to rotenone, FCCP, cycloheximide,
troglitazone, or CL316243. Thermogenesis was measured using infrared
thermography. Results. Thermogenesis increased after exposing yeast to
the mitochondrial uncoupler, FCCP, or **transforming** the cells
with UCP2. Further, thermogenesis in adipocytes was stimulated by
CL316243, a beta3-adrenoceptor agonist being developed to treat obesity.
The protein synthesis inhibitor, cycloheximide, did not inhibit
CL316243-mediated thermogenesis. In contrast, the mitochondrial proton
transport inhibitor, rotenone, inhibited thermogenesis in yeast and
adipocytes. Similarly, the antidiabetic agent, troglitazone, suppressed
thermogenesis in adipocytes. Although increased **UCP** synthesis
resulted in increased thermogenesis in yeast, **UCP** expression did
not correlate with thermogenesis in adipocytes. Conclusions. The
results, taken together with the high resolution (0.002degreeC) and
robustness (384-well format) of the approach, indicate infrared-imaging is
a rapid and effective method for measuring thermogenesis in vitro.

=> d 15 1-5 ibib ab

L5 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1998:323638 BIOSIS
DOCUMENT NUMBER: PREV199800323638